

## **WATER LAB TECHNICIAN**

### **PURPOSE:**

Collect, test and analyze water and other related samples to determine the physical, chemical and bacteriologic components.

### **FUNCTIONS:**

1. Collect, test and analyze water and other related samples to determine their physical, chemical, and bacteriologic components.
  - \* A. Collect samples from various locations in a valid manner consistent with good laboratory practice.
  - \* B. Analyze samples either collected or provided using laboratory equipment to determine the physical, chemical, and bacteriologic components.
  - \* C. Record all findings for reference and reporting purposes.
  - \* D. Produce reports as necessary and on a regular basis.
  - \* E. Utilize good laboratory practice to prevent cross-contamination and inaccurate results.
  - \* F. Maintain a current knowledge of water chemistry, bacteriology, water quality assurance, MDH and EPA certified procedures, and related fields relevant to this work.
  - \* G. Maintain a constant awareness of safe work practices.
  - H. Provide information to assist operators in resolving chemical treatment questions.
2. Perform related tasks as necessary.
  - A. Maintain the assigned spaces in a clean, safe, and orderly condition.
  - B. Perform routine maintenance on equipment assigned, including the calibration, maintenance, and service of laboratory and process control instrumentation.
  - C. Assist in maintaining and repairing water treatment equipment, including but not limited to pumps, generators, fans, feeders, flocculators, and filters as assigned.
  - D. Interact with the public and other agencies.
  - E. Respond to customer complaints and questions.

### **REQUIREMENTS:**

#### **EDUCATION:**

- † A. College level course work in chemistry and bacteriology.

#### **KNOWLEDGE:**

- † A. Extensive knowledge of water chemistry.
- † B. Extensive knowledge of safe and effective laboratory practice and procedure.

- † C. Knowledge of chemistry and bacteriology and related laboratory analysis procedures.
- † D. Knowledge of effective sampling and monitoring procedures.
- † E. Knowledge of computerized information systems and spreadsheets.

**SKILL:**

- † A. Skill in the safe use of laboratory equipment to determine the physical, chemical, and bacteriologic components of water.

**ABILITY:**

- † A. Ability to attend work on a regular basis in accordance with a pre-determined schedule.
  - † B. Ability to perform routine laboratory tests and sampling duties in the field.
  - † C. Ability to understand and interpret laboratory test results.
  - † D. Ability to communicate effectively across multiple media.
  - † E. Ability to lift and transport laboratory samples and equipment weighing up to 25 pounds.
  - † F. Ability to transport oneself to, from, and around various locations within the City of Duluth to collect samples.
- \* Essential functions of the classification.
- † Minimum classification requirements necessary on the first day of employment.

Anlst: CT	Date: 20050629
Union: Basic	Pay: 27
CSB: 20050705	Class: 3232
CC: 20051024	Res: 05-0687R